S.E. sem ITT CB43 comp/IT. M-2019 S46:- OOPM

QP Code: NP-18782

	1	(3 Hours) [Total Mark	ks: 80
٧.]		 Question No. 1 is compulsory. Attempt any three from remaining. 	
1.	(b)	Write a reurssive method to calculate factorial of a integer number. Explain Bit-wise operators available in JAVA with example. Explain how JAVA is platform - independent. Write a program to find the largest of the three integers accepted from command line.	5 5 5 5
2.	(a) (b)	Write a detailed note on System.arraycopy(). Write a program to display following pattern:- 1 01 101 0101	5
	(c)		10
3.	` ,	With proper example explain the steps to create a package and add a class of interface. Explain Thread life cycle. Write a program in JAVA to accept the values of a, b, c and d. Calculate and display ((a*d) + (b*c)) / (b*d). Create user defined exception to display proper message when value of (b*d) is ZERO.	5 10
4.		What is Vector? Explain any five methods of Vector. Explain what are abstract class and abstract methods. Write a program to find largest and second largest element of an array.	5 5 10
5.	(b)	Explain method overloading and method overriding with suitable example. Write a program to accept a number from command line and to check whether it is Armstrong Number or Not.	
	Wri	ite short notes on (any four):- (a) Wrapper classes. (b) Life cycle of Applet (c) Static members (d) Thread synchronization (e) Exception handling mechanism.	20